Туре	of Modu	ıle		Module Code Neurobiology Lecture								
0	Basic	Module										
Identification Number MN-B-N 1		Workload	Credit Points	Term		Offered Every		Start		Duration		
		180 h	6 CP	1 st ter		Winter term		Winter term only		1 term		
1	Cour	Course Types		Conta	act Time	Privat	Private Stu		Planned Group			
	Lectu	Lecture			49 h		131 h		Size*			
									Approx. 50-70 students			
2	Module Objectives and Skills to be Acquired											
	Students who successfully completed this module											
	 have acquired an understanding of neural functions and mechanisms from the cellular to the behavioral level 											
	have acquired in-depth knowledge of important concepts in the neurosciences											
	will be in a position to access future developments in the neurosciences											
	have acquired the ability to form and test hypotheses in the neurosciences											
3	Module Content											
	Neuroanatomy and cytology											
	Brain architecture											
	Ion channels and electrical properties of neurons											
	Neural signaling											
	Circuit function											
	Motor control											
	Sensory systems											
	Learning and memory											
	Neurodegeneration and -regenerationNeuroendocrinology and neuromodulation											
	•				odulation							
		•	onal neurosci	ence								
		riouropaur										
		riodiai doi	reiopment eption and cor	ntral of har	manetacie							
		Behavior	טוטוו מווט כטו	ili Oi Oi 1101	IICO2(92)2							
	+											
4	Teac	hing Methods	5									
	•	Lecture										

5	Prerequisites (for the Module)									
	Enrollment in the Master's degree course "Biological Sciences" or in the Master's degree course "Experimental and Clinical Neuroscience" Additional academic requirements									
	The knowledge of neurobiology on the level of a general biology text book (<i>e.g.</i> Campbell or Purves) is required.									
6	Type of Examination									
	Two hours written examination about topics of the lectures (100 % of the total module mark)									
7	Credits Awarded									
	Written examination at least "sufficient"									
8	Compatibility with other Curricula									
	Master's degree course "Experimental and Clinical Neuroscience"									
9	Proportion of Final Grade									
	7.5 %									
10	Module Coordinator									
	PD Dr. Joachim Schmidt, phone 470 6135, e-mail: joachim.schmidt@uni-koeln.de									
11	Further Information									
	Participating faculty: Prof. Dr. S. van Albada, PD Dr. B. Altenhein, Prof. Dr. A. Büschges, Prof. Dr. S. Daun, Prof. Dr. H. Endepols, Dr. M. Gruhn, Prof. Dr. K. Ito, Prof. Dr. P. Kloppenburg, Prof. Dr. T. Korotkova, Prof. Dr. M. Nawrot, Prof. Dr. R. Predel, Dr. T. Riemensperger, Dr. V. Rostami, PD Dr. J. Schmidt									
	Literature:									
	 Information about textbooks and other reading material will be given on the ILIAS representation of the course (https://www.ilias.uni-koeln.de/ilias/goto_uk_cat_2815610.html) 									
	General time schedule: Weeks 1-14: Tue. and Thu. from 11:00 to 12:30 a.m.; Week 15 (MonFri.): Preparation for the written examination									
	Introduction to the module : October 12, 2021 at 11:00 a.m. online (further information/link will be sent to your Smail-Account); for preparation to the module before this introduction see ILIAS link under literature.									
	Written examination: February 08, 2022, second/supplementary examination March 08, 2022; the latter date may vary if students and module coordinator agree. More details will be given at the beginning of the module.									

^{*} Depending on how many students from other subject areas (and if indicated also from other master's degree courses, see 5) choose this module.